

MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project
Advisory Groups and Interested Parties

FROM: John Pandiani
Rachel Mayer

DATE: November 13, 1998

RE: Practice Patterns: Involuntary Treatment

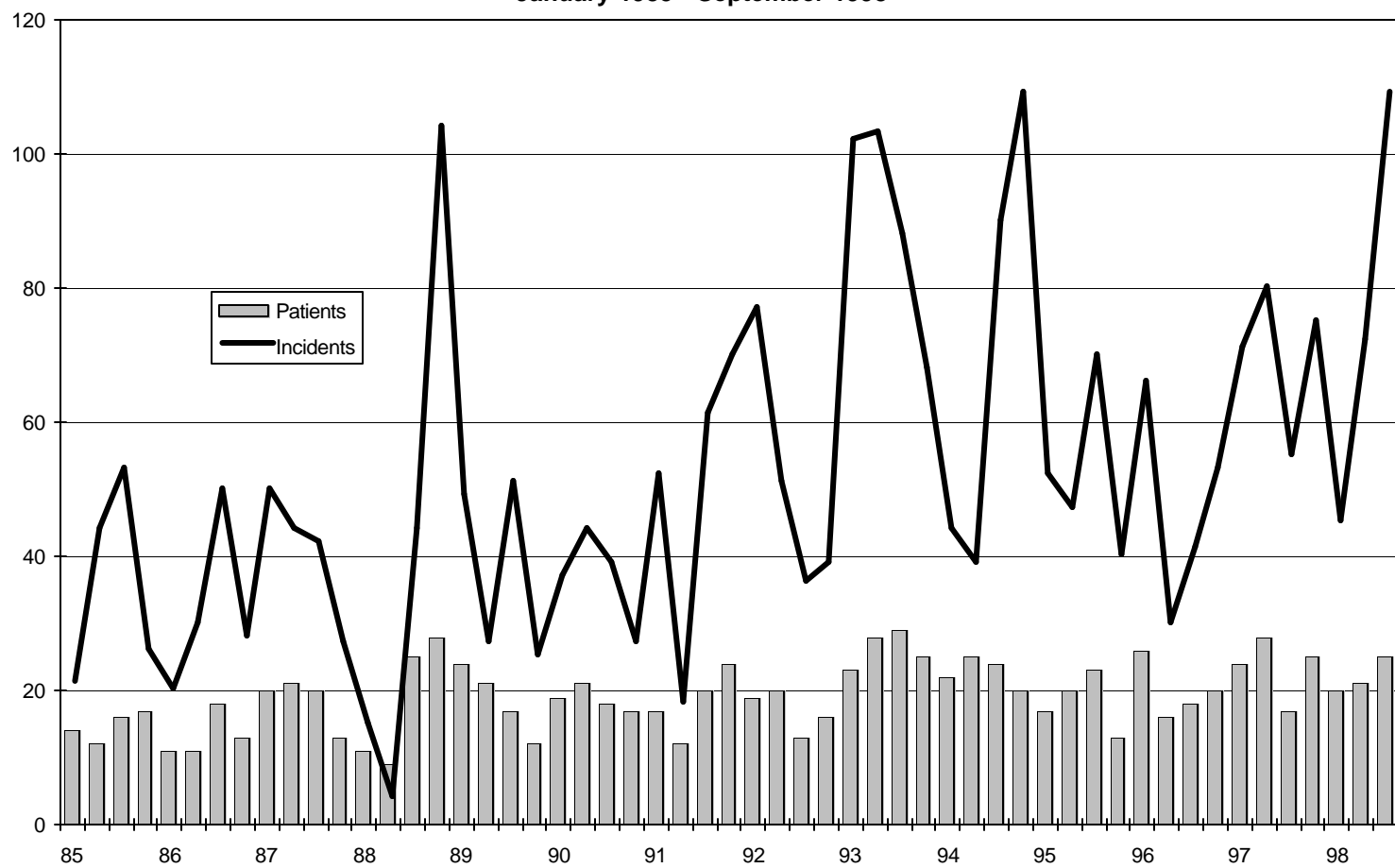
The attached graphs and tables provide a detailed history of the use of involuntary treatment (including seclusion, restraint, medication, and one-on-one specialing) at the Vermont State Hospital since January of 1988. The cover page highlights aspects of the most recent quarter.

Rates of involuntary treatment are one of the performance indicators that will be required by our upcoming 16 State Performance Indicator project.

We will be interested in your thoughts regarding two questions about this indicator (and about other indicators that you may be recommending to the commissioner). First, how often should data on rates of involuntary care be published? Second, how much detail should be included in these reports?

We look forward to your questions, your comments and your suggestions. You can e-mail to us at pip@ddmhs.state.vt.us, or give one of us a call (802-241-2638 for John, or 802-241-2643 for Rachel).

**EMERGENCY INVOLUNTARY MEDICATION
at the Vermont State Hospital
January 1985 - September 1998**

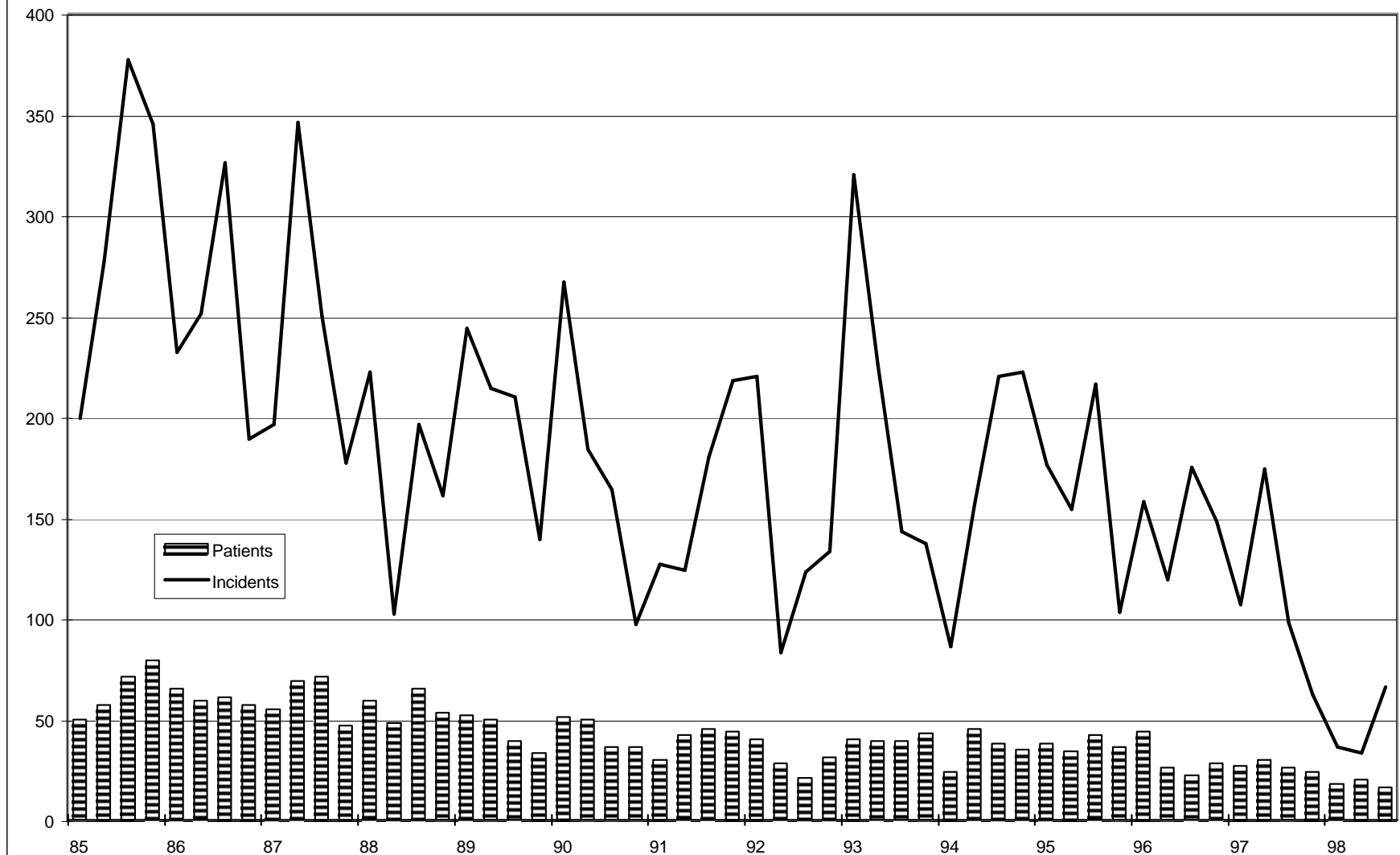


INVOLUNTARY MEDICATION
AT THE VERMONT STATE HOSPITAL
January 1, 1988 - June 30, 1998

Quarter	Patients Involuntarily Medicated*						Incidents of Emergency Involuntary Medication	
	Emergency		Non Emergency		Total		#	Incidents per Patient Year
	#	%	#	%	#	%		
1988								
I. Jan-March	11	4%	13	4%	20	6%	15	0.3
II. April-June	9	3%	14	5%	21	7%	4	0.1
III. July-Sept	25	9%	8	3%	29	10%	44	1.1
IV. Oct-Dec	28	11%	4	2%	31	12%	104	2.8
1989								
I. Jan-March	24	11%	9	4%	28	12%	49	1.4
II. April-June	21	9%	4	2%	25	11%	27	0.8
III. July-Sept	17	8%	2	1%	19	9%	51	1.7
IV. Oct-Dec	12	5%	2	1%	14	6%	25	1.2
1990								
I. Jan-March	19	10%	2	1%	21	11%	37	1.4
II. April-June	21	10%	5	2%	24	12%	44	1.6
III. July-Sept	18	10%	4	2%	22	12%	39	1.3
IV. Oct-Dec	17	9%	4	2%	20	10%	27	1.0
1991								
I. Jan-March	17	9%	10	5%	24	12%	52	2.0
II. April-June	12	7%	7	4%	18	10%	18	0.8
III. July-Sept	20	11%	5	3%	23	12%	61	2.4
IV. Oct-Dec	24	12%	7	4%	30	15%	70	2.6
1992								
I. Jan-March	19	10%	7	4%	27	14%	77	3.1
II. April-June	20	12%	9	5%	29	17%	51	2.1
III. July-Sept	13	9%	8	5%	17	11%	36	1.6
IV. Oct-Dec	16	10%	7	4%	21	13%	39	1.7
1993								
I. Jan-March	23	15%	6	4%	28	18%	102	4.5
II. April-June	28	19%	6	4%	32	22%	103	5.0
III. July-Sept	29	18%	11	7%	37	23%	88	4.1
IV. Oct-Dec	25	16%	13	8%	33	21%	68	3.1
1994								
I. Jan-March	22	15%	10	7%	28	19%	44	2.2
II. April-June	25	17%	8	5%	30	20%	39	2.2
III. July-Sept	24	15%	7	4%	30	19%	90	4.8
IV. Oct-Dec	20	13%	7	5%	28	18	109	5.3
1995								
I. Jan-March	17	12%	12	9%	24	17%	52	2.9
II. April-June	20	16%	10	8%	27	19%	47	2.5
III. July-Sept	23	15%	12	8%	30	20%	70	3.6
IV. Oct-Dec	13	8%	13	8%	22	14%	40	2.0
1996								
I. Jan-March	26	17%	12	8%	35	23%	66	3.4
II. April-June	16	12%	14	11%	28	21%	30	1.8
III. July-Sept	18	12%	13	10%	27	21%	41	2.6
IV. Oct-Dec	20	16%	16	13%	30	24%	53	3.3
1997								
I. Jan-March	24	20%	12	10%	32	26%	71	4.2
II. April-June	28	20%	14	10%	39	27%	80	4.3
III. July - Sept	17	11%	11	7%	24	15%	55	3.3
IV. Oct-Dec	25	19%	16	12%	34	26%	75	5.3
1998								
I. Jan-March	20	16%	11	9%	29	23%	45	3.3
II. April-June	21	18%	4	3%	23	20%	72	5.0
III. July - Sept	25	25%	9	9%	29	29%	109	7.7

* Categories are not mutually exclusive; patients may receive involuntary medication in both emergency and non-emergency situations during the same reporting period. Percents are computed on the total number of individuals who were in residence at the Vermont State Hospital for any amount of time during the quarter.

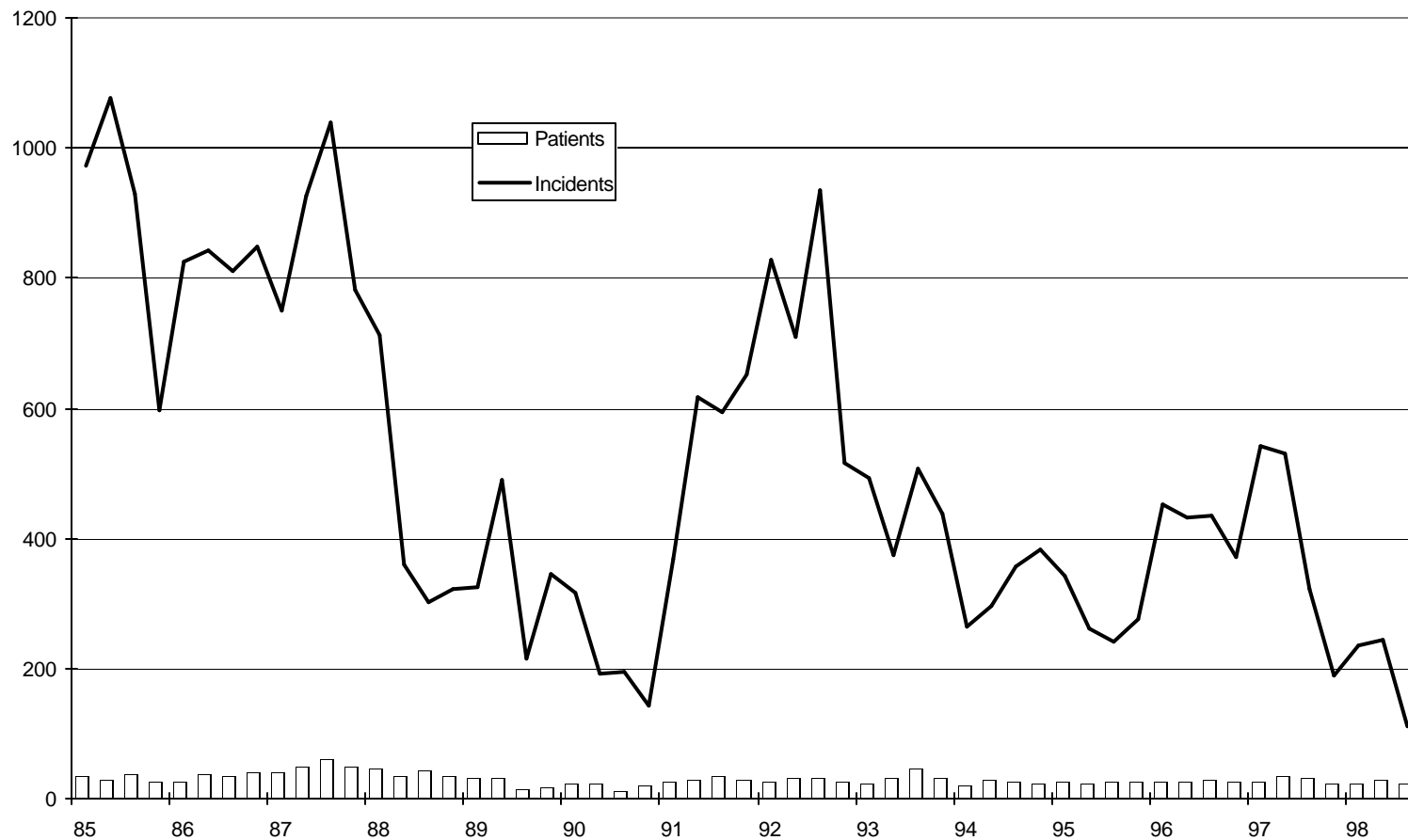
**INVOLUNTARY SECLUSION
at the Vermont State Hospital
January 1985 - September 1998**



INVOLUNTARY SECLUSION
AT THE VERMONT STATE HOSPITAL
January 1, 1988 - June 30, 1998

Quarter	Patients Secluded		Seclusion Incidents	
	Number	Percent of All Patients	Number	Rate (Incidents per Patient Year)
1988				
I. Jan-March	59	19%	222	4.7
II. April-June	48	17%	102	2.4
III. July-Sept	65	23%	196	4.9
IV. Oct-Dec	53	21%	161	4.3
1989				
I. Jan-March	52	23%	244	7.0
II. April-June	50	21%	214	6.7
III. July-Sept	39	18%	210	7.0
IV. Oct-Dec	33	15%	139	4.6
1990				
I. Jan-March	51	26%	267	9.9
II. April-June	50	25%	184	6.5
III. July-Sept	36	19%	164	5.6
IV. Oct-Dec	36	18%	97	3.4
1991				
I. Jan-March	30	15%	127	4.9
II. April-June	42	23%	124	5.3
III. July-Sept	45	24%	180	7.0
IV. Oct-Dec	44	22%	218	8.2
1992				
I. Jan-March	40	21%	220	8.7
II. April-June	28	17%	83	3.4
III. July-Sept	21	14%	123	5.3
IV. Oct-Dec	31	20%	133	5.7
1993				
I. Jan-March	40	26%	320	14.2
II. April-June	39	26%	226	11.0
III. July-Sept	39	24%	143	6.6
IV. Oct-Dec	43	28%	137	6.2
1994				
I. Jan-March	24	16%	86	4.2
II. April-June	45	30%	157	8.9
III. July-Sept	38	24%	220	11.8
IV. Oct-Dec	35	23%	222	10.9
1995				
I. Jan-March	38	27%	176	9.9
II. April-June	34	24%	154	8.2
III. July-Sept	42	27%	216	11.2
IV. Oct-Dec	36	22%	103	5.1
1996				
I. Jan-March	44	29%	158	8.0
II. April-June	26	19%	119	7.0
III. July-Sept	22	17%	175	10.9
IV. Oct-Dec	28	23%	148	9.2
1997				
I. Jan-March	27	22%	107	6.3
II. April-June	30	21%	174	9.3
III. July - Sept	26	16%	98	5.9
IV. Oct-Dec	24	18%	62	4.4
1998				
I. Jan-March	18	14%	36	2.6
II. April - June	20	17%	33	2.3
III. July - Sept	16	16%	66	4.6

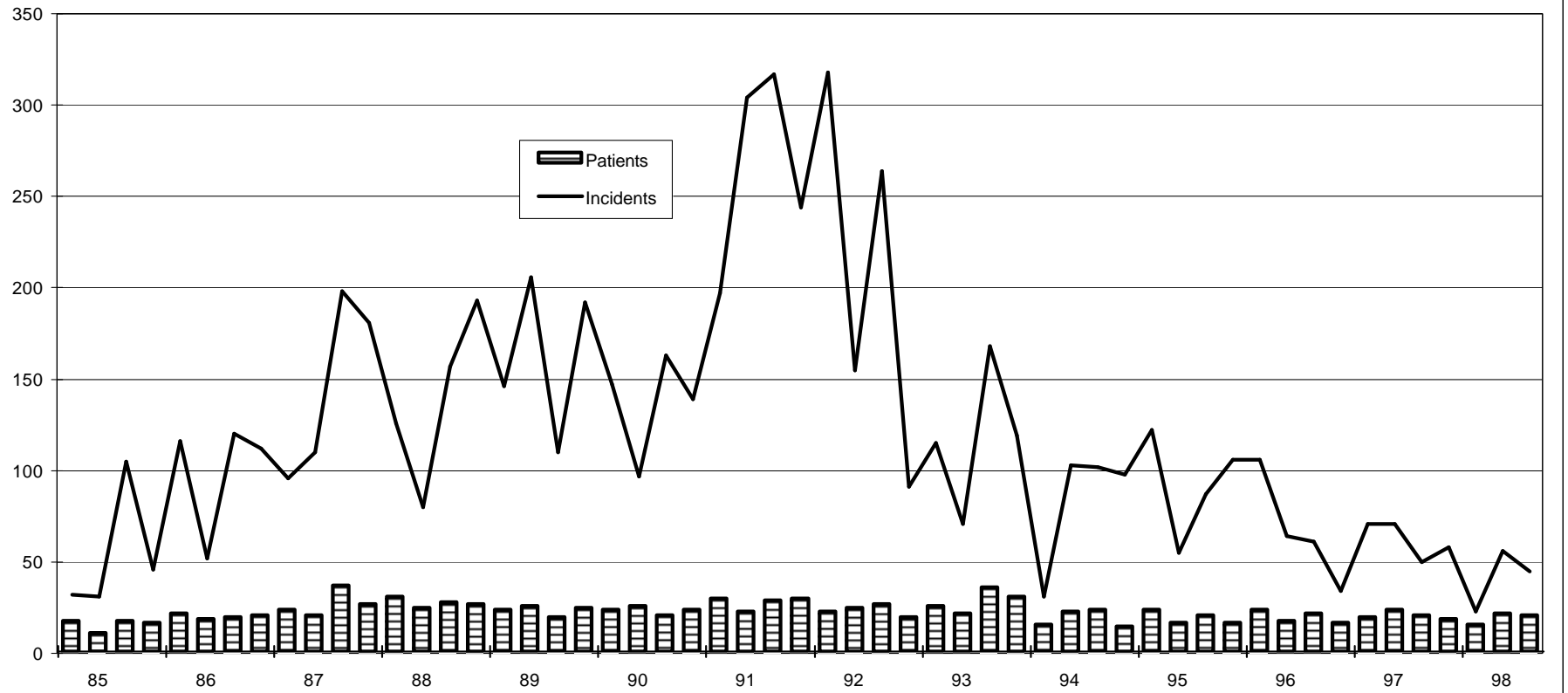
**INVOLUNTARY SPECIALING
at the Vermont State Hospital
January 1985 - September 1998**



INVOLUNTARY SPECIALING
AT THE VERMONT STATE HOSPITAL
January 1, 1988 - June 30, 1998

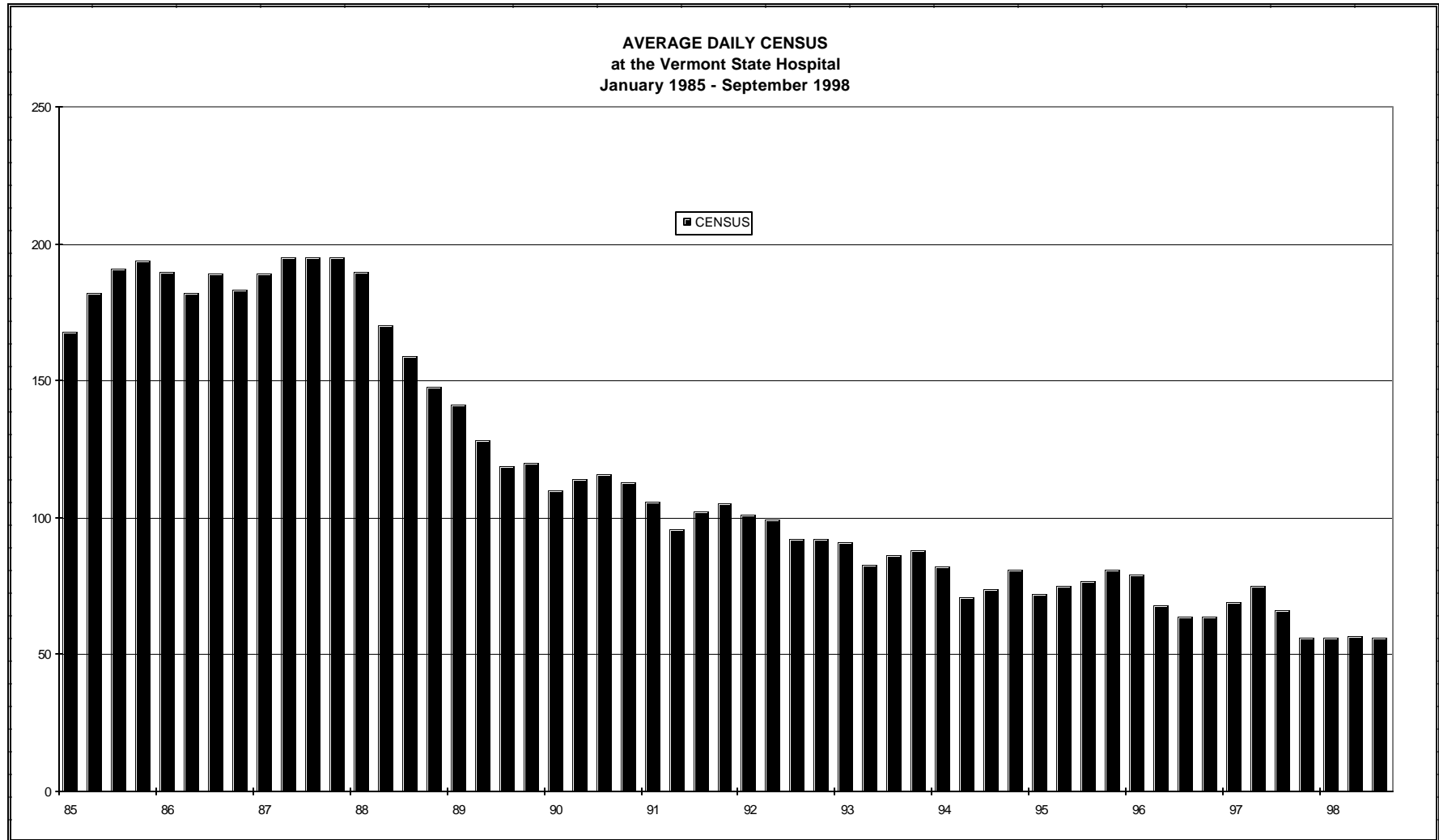
Quarter		Patients Specialized		Specializing Incidents	
		Number	Percent of All Patients	Number	Rate (Incidents per Patient Year)
1988					
I.	Jan-March	46	15%	712	15.1
II.	April-June	35	12%	359	8.5
III.	July-Sept	44	15%	300	7.5
IV.	Oct-Dec	35	14%	322	8.7
1989					
I.	Jan-March	31	14%	324	9.4
II.	April-June	31	13%	490	15.3
III.	July-Sept	14	6%	215	7.2
IV.	Oct-Dec	18	8%	343	11.3
1990					
I.	Jan-March	24	12%	316	11.7
II.	April-June	23	11%	190	6.7
III.	July-Sept	13	7%	195	6.7
IV.	Oct-Dec	20	10%	143	5.0
1991					
I.	Jan-March	27	14%	366	14.0
II.	April-June	28	16%	615	25.6
III.	July-Sept	36	19%	594	23.2
IV.	Oct-Dec	30	15%	650	24.6
1992					
I.	Jan-March	27	14%	828	32.8
II.	April-June	31	18%	708	30.3
III.	July-Sept	32	21%	933	40.2
IV.	Oct-Dec	25	16%	516	22.0
1993					
I.	Jan-March	22	14%	492	21.8
II.	April-June	32	22%	374	18.1
III.	July-Sept	45	28%	505	23.4
IV.	Oct-Dec	32	21%	436	19.7
1994					
I.	Jan-March	21	14%	264	13.0
II.	April-June	28	19%	295	16.8
III.	July-Sept	26	17%	357	19.1
IV.	Oct-Dec	22	14%	383	18.1
1995					
I.	Jan-March	26	19%	340	19.2
II.	April-June	22	16%	260	13.9
III.	July-Sept	25	16%	241	12.5
IV.	Oct-Dec	25	16%	275	13.6
1996					
I.	Jan-March	27	18%	450	22.8
II.	April-June	26	19%	432	25.4
III.	July-Sept	29	23%	433	27.0
IV.	Oct-Dec	27	22%	369	22.9
1997					
I.	Jan-March	26	21%	541	31.7
II.	April-June	34	24%	528	28.2
III.	July - Sept	32	20%	322	19.3
IV.	Oct - Dec	22	17%	188	13.3
1998					
I.	Jan-March	23	18%	234	17.1
II.	April - June	28	24%	242	16.9
III.	July - Sept	23	23%	111	7.8

**INVOLUNTARY RESTRAINT
at the Vermont State Hospital
January 1985 - September 1998**



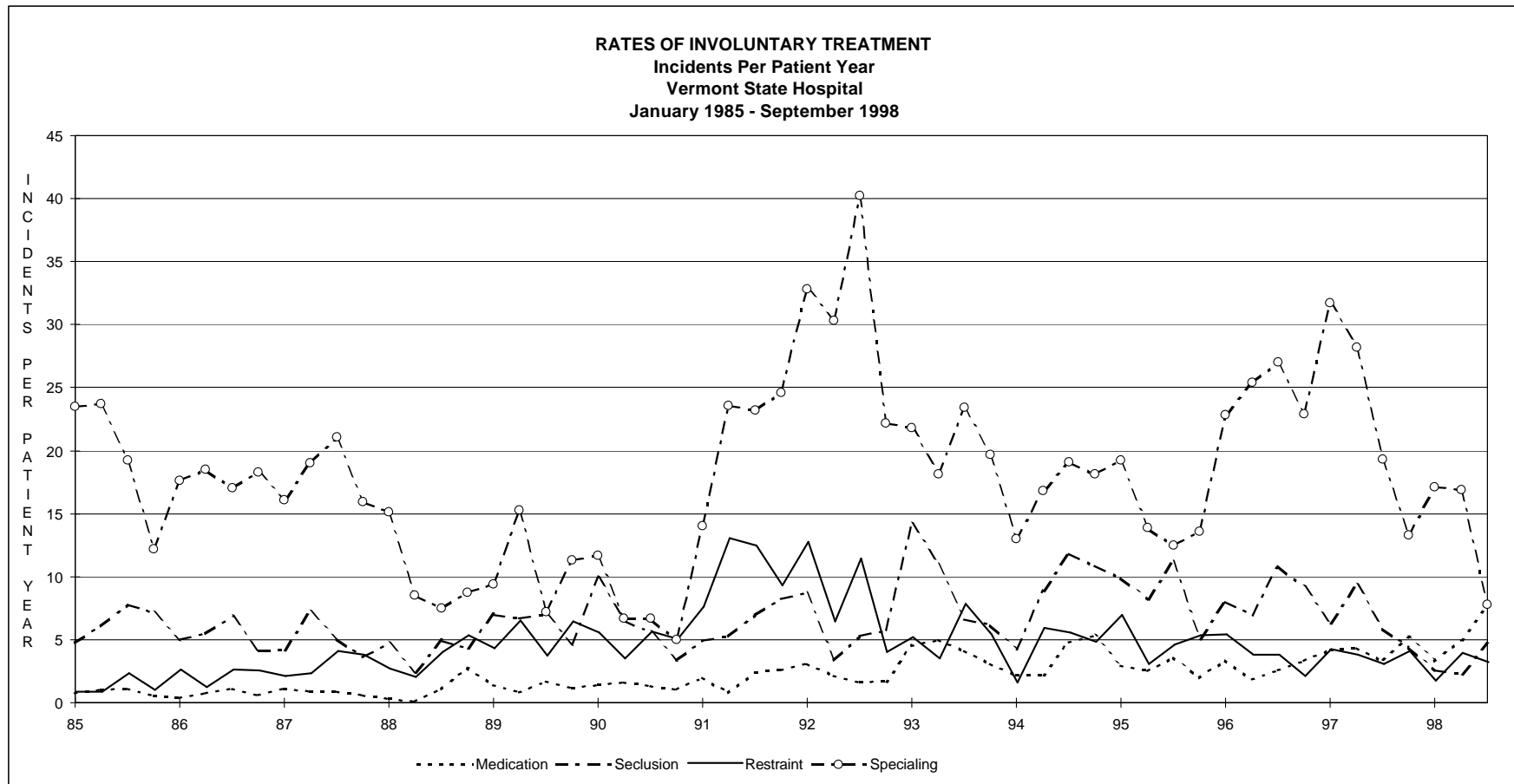
INVOLUNTARY RESTRAINT
AT THE VERMONT STATE HOSPITAL
January 1, 1988 - March 31, 1998

Quarter		Patients Restrained				Restraint Incidents			Rate (Incidents per Patient Year)
		Number		Percent of All Patients	Number				
		VSH	VNH Total		VSH	VNH Total			
1988									
I.	Jan-March	24	9	30	10%	62	63	125	2.6
II.	April-June	17	9	24	8%	62	51	79	1.9
III.	July-Sept	19	8	27	9%	44	112	156	3.9
IV.	Oct-Dec	17	9	26	10%	87	105	192	5.2
1989									
I.	Jan-March	17	6	23	10%	85	59	145	4.2
II.	April-June	18	9	25	11%	95	110	205	6.4
III.	July-Sept	14	6	19	9%	50	59	109	3.6
IV.	Oct-Dec	16	9	24	11%	148	43	191	6.3
1990									
I.	Jan-March	15	8	23	12%	59	87	146	5.4
II.	April-June	18	7	25	12%	52	44	96	3.4
III.	July-Sept	10	10	20	11%	86	76	162	5.5
IV.	Oct-Dec	14	9	23	12%	56	82	138	4.9
1991									
I.	Jan-March	21	8	29	15%	121	75	196	7.5
II.	April-June	15	7	22	12%	175	128	303	12.9
III.	July-Sept	20	8	28	15%	125	191	316	12.3
IV.	Oct-Dec	23	6	29	15%	180	63	243	9.2
1992									
I.	Jan-March	18	4	22	12%	294	23	317	12.6
II.	April-June	20	4	24	14%	143	11	154	12.3
III.	July-Sept	21	5	26	17%	219	10	263	11.3
IV.	Oct-Dec	15	4	19	12%	69	21	90	3.9
1993									
I.	Jan-March	18	7	25	16%	74	40	114	5.1
II.	April-June	17	4	21	14%	60	10	70	3.4
III.	July-Sept	30	5	35	22%	145	22	167	7.7
IV.	Oct-Dec	24	6	30	19%	98	20	118	5.3
1994									
I.	Jan-March	12	3	15	10%	22	8	30	1.5
II.	April-June	22	0	22	15%	102	0	102	5.8
III.	July-Sept	23	0	23	15%	101	0	101	5.4
IV.	Oct-Dec	14	0	14	9%	97	0	97	4.7
1995									
I.	Jan-March	23		23	16%	121		121	6.8
II.	April-June	16		16	11%	54		54	2.9
III.	July-Sept	20		20	13%	86		86	4.5
IV.	Oct-Dec	16		16	10%	105		105	5.2
1996									
I.	Jan-March	23		23	15%	105		105	5.3
II.	April-June	17		17	13%	63		63	3.7
III.	July-Sept	21		21	16%	60		60	3.7
IV.	Oct-Dec	16		16	13%	33		33	2.0
1997									
I.	Jan-March	19		19	16%	70		70	4.1
II.	April-June	23		23	16%	70		70	3.7
III.	July - Sept	20		20	13%	49		49	2.9
IV.	Oct - Dec	18		18	14%	57		57	4.0
1998									
I.	Jan-March	15		15	12%	22		22	1.6
II.	April - June	21		21	18%	55		55	3.8
III.	July - Sept	20		20	20%	44		44	3.1



AVERAGE DAILY CENSUS
AT THE VERMONT STATE HOSPITAL
January 1, 1988 - March 31, 1998

<u>Quarter</u>	<u>Total Patients Served</u>	<u>Total Patient Days</u>	<u>Average Daily Census</u>
1988			
I. January - March	309	17,258	189.6
II. April - June	289	15,460	170.0
III. July - September	286	14,588	158.6
IV. October - December	251	13,584	147.6
1989			
I. January - March	224	12,655	140.6
II. April - June	236	11,644	128.0
III. July - September	217	10,912	118.6
IV. October - December	219	11,058	120.2
1990			
I. January - March	198	9,873	109.7
II. April - June	203	10,332	113.5
III. July - September	188	10,700	116.3
IV. October - December	198	10,382	112.8
1991			
I. January - March	197	9,527	105.9
II. April - June	179	8,757	96.2
III. July - September	187	9,357	101.7
IV. October - December	196	9,650	104.9
1992			
I. January - March	189	9,202	101.1
II. April - June	169	8,990	98.8
III. July - September	151	8,466	92.0
IV. October - December	158	8,491	92.3
1993			
I. January - March	152	8,230	91.4
II. April - June	148	7,524	82.7
III. July - September	160	7,870	85.5
IV. October - December	154	8,076	87.8
1994			
I. January - March	146	7,427	82.5
II. April - June	150	6,433	70.7
III. July - September	156	6,830	74.2
IV. October - December	153	7,435	80.8
1995			
I. January - March	140	6,481	72.0
II. April-June	141	6,836	75.1
III. July-Sept	153	7,037	76.5
IV. October - December	161	7,415	80.6
1996			
I. January - March	150	7,193	79.0
II. April - June	134	6,200	68.1
III. July - September	129	5,861	63.7
IV. October - December	123	5,894	64.1
1997			
I. January - March	121	6,232	69.2
II. April - June	142	6,845	75.2
III. July - Sept	158	6,099	66.3
IV. Oct - Dec	130	5,157	56.1
1998			
I. January - March	126	5,004	55.6
II. April - June	116	5,218	57.3
III. July - Sept	101	5,188	56.4



**NON-EMERGENCY INVOLUNTARY MEDICATION
at the Vermont State Hospital
January 1985 - September 1998**

